10586992 - GAU: 3747 **10/586992** 

IAP6 Rec'd PCT/PTO 21 JUL 2006

## PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of Masanao IDOGAWA, et al.

Group Art Unit : -(Unassigned) 3747

Application No. : (Natl. Phase of PCT/IB2005/003800) 10/586, 992

Examiner : (Unassigned) HIEU VO

Filed : (Herewith) 07/21/2006

Docket No. : 10517/338

For : VALVE CHARACTERISTIC CONTROL APPARATUS

FOR INTERNAL COMBUSTION ENGINE

## INFORMATION DISCLOSURE STATEMENT

COMMISSIONER FOR PATENTS Customer Service Window Randolph Bldg. 401 Dulany Street Alexandria, VA 22314

Sir

Receipt date: 07/21/2006

Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filling of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). The paragraphs marked below are applicable. It is believed that no fees other than those indicated below are due, but authorization is hereby given to charge any additional fees due, or to credit any overawment, to deposit account 11-0600.

- ☑ 1. This Information Disclosure Statement is being filed (a) within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. §1.53(d), (b) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, (c) before the mailing date of a first Office Action on the merits in the present application, OR (d) before the mailing of a first office action after filing of a request for continued examination. No certification or fee is required.
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action

on the merits, but before the mailing date of a final action, Notice of Allowance, or any action that otherwise closes prosecution. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1). b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2). Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the fee under 37 CFR \$1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached. 37 CFR §1.97(c)(2). This Information Disclosure Statement is being filed after the mailing date of a final action. Notice of Allowance or an action that otherwise closes prosecution, but before payment of the Issue Fee, Applicant(s) hereby request(s) that the Information Disclosure Statement be considered. Please debit Deposit Account No. 11-0600 in the amount of \$180.00 in payment of the petition fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached. I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in any counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement, 37 CFR §1.97(e)(1). I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement, 37 CFR \$1,97(e)(2). П Relevance of the non-English language reference(s) is discussed in the 4 present specification. П The reference(s) was/were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information. A concise explanation of the relevance of certain non-English language reference(s) appears in the Appendix attached hereto. The Examiner's attention is directed to co-pending U.S. Patent Application No. , filed, which is directed to related technical subject

- 2 - $^{\text{DC01}}$  ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /HV/ 10586992 - GAU: 3747 **10/58699**2

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matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination of the present application.

- 8. This application is one of a series of related applications, identified in the attached Appendix, which are directed to related technical subject matter. The identification of those U.S. Patent Applications is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during the examination.
- 9. The reference(s) was/were cited by or submitted to the Office in parent application No.\_\_\_\_\_, filed \_\_\_\_\_, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 CFR §1.98(d).
- ☑ 10. English-language Abstracts of the non-English language references are attached thereto.
- 11. Copies of U.S. references are not required.
- ☑ 12. Other: Four off the references were cited in the International Search
  Report. Copies of the International Search Report and the Written Opinion of the
  International Searching Authority are enclosed. JP 2003-120348 is described in the
  specification on page 1.

In addition, the following comments are supplied:

<u>JP A 2003-120348</u>: Retard control of an exhaust valve is performed for a predetermined period following engine start up. As a result, unburned HCs contained in combustion gas are combusted again, and emissions are improved.

<u>JP A 2002-13419</u>: The same overlap amount is set for a predetermined period following engine start up, and valve timing is retarded.

<u>JP A 2002-161770</u>: The same overlap amount is set for a predetermined period following engine start up, and valve timing is retarded.

Respectfully submitted,

(Reg. No. 36,394)

Date: 21 July 2006

Receipt date: 07/21/2006

KENYON & KENYON LLP 1500 K Street, N.W. Washington, D.C. 20005

Telephone: (202) 220-4200 Facsimile: (202) 220-4201

Receipt date: 07/21/2006

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U.S. Patent and Trademark Officer, U.S. DEPARTMENT OF CAMBRICAE
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STATEMENT BY APPLICANT

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Complete if Known 10 / 586, 992

Application Number

(Natl, phase of PCT/IB050003800)

Filing Date
(Harewith / F.B. 992)

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Art Unit

Complete if Known 10 / 586, 992

Application Number

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Filing Date

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(Harewith / F.B. 992)

Application Number

Application Number

Filing Date

Filing

Attorney Docket Number

			U.S. PATENT I	DOCUMENTS	
Examiner Initials *	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan
		Number - Kind Code <sup>2</sup> (if known)		Cited botalinent	Passages or Refevant Figures Appear
/HV/	1	US-6,266,957	07/31/01	NOZAWA et al	
/HV/	2	US-5,293,741	03/15/94	KASHIYAMA et al.	
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FOREIGN PATENT DOCUMENTS							
Fuencies	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant		
Examiner Initials*	No.1	Country Code <sup>3</sup> – Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T <sup>0</sup>	
/HV/	1	EP 1 167 734 A2	01/02/02	MOTOR CO., LTD.			
/HV/	2	JP 2003-120348 A	04/23/03	DENSO CORP		ABS	
/HV/	3	JP 2002-013419 A	01/18/02	UNISIA JECS CORP		ABS	
/HV/	4	JP 2002-161770 A	06/07/02	UNISIA JECS CORP		ABS	
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Examiner Signature	/Hieu Vo/	Date Considered	08/27/2008			

"EXAMINER, Initial if inference considered, whether or not clastion is in conformance with NEEP 009. Draw like through clastion if not no conformance and not considered, include copy of this form with next communication to applicate." Applicant's unspired clastion dissipation number (coltional). \*See Kirds Codes of USPTO Patent Documents at www.uspix.ogy or NEEP 90.104. \*Enter Office that issued the document, by the two-letter code (NIPO Standard \$3.1, "For Japanese plant documents, his indication of the year of the religion for the Emporer must proceed the serial number of the plant document. \*Kind of document by the appropriate symbols as indicated on the document under WIPO Standard \$7.1.61 possible. \*Applicant is to place a check mark here if English languages Transitions is attached.

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